JC10 Rec'd PCT/PTO 06 MAY 2005

6&H Form: FORM PTO-1390 (12/04)

FORM PTO-1390 (REV. 12-2004) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY 'S DOCKET NUMBER 1454.1612

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, 500 37 CFR 1.5 (Unassigned) / 5 3 4 1 1 4

INTERNATIONAL APPLICATION NO. PCT/DE2003/003221

INTERNATIONAL FILING DATE 26 September 2003

PRIORITY DATE CLAIMED 6 November 2002

TITLE OF INVENTION

MEASURING ELEMENT FOR DETERMINING A FLOW RATE

APPLICANT(S) FOR DO/EO/US Siegfried BIRKLE et al.

Annlic	ant herewith sub	mits to the Un	ited States Des	signated/Elected Office	(DO/FO/US) the	following items and	other information

- 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
- 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
- 3. Main This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
- 4.

 The US has been elected (Article 31).
- 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. \square is attached hereto (required only if not communicated by the International Bureau).
 - b. has been communicated by the International Bureau.
 - c. is not required, as the application was filed in the United States Receiving Office (RO/US).
- 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a.
 is attached hereto.
 - b. has been previously submitted under 35 U.S.C. 154(d)(4).
- 7. Mark Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a.

 are attached hereto (required only if not communicated by the International Bureau).
 - b.

 have been communicated by the International Bureau.
 - c. \square have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made.
- 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- 10. ☑ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

- 11. ☑ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- 12 An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 13. A preliminary amendment.

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- 14. An Application Data Sheet under 37 CFR 1.76.
- 15. A substitute specification.
- 16. A power of attorney and/or change of address letter.
- 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter. 2 and 37 CFR 1.821 1.825.
- 18. ☑ A copy of the published international application under 35 U.S.C. 154(d)(4).
- 19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20 🗵 Other items or information: Copies of International Search Report, International Preliminary Examination Report, letter submitting Article 19 Amendment and Form PCT/IB/346.

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U.S. APPLICATION NO. (Unassigned)	Unassigned 5 34 37 Fr 15) 4 INTERNATIONAL APPLICATION NO. PCT/DE2003/003221						ATTORNEY'S DOCKET NUMBER 1454.1612					
21. ⊠ • The fo	ollowing fees are s	APPLICANT USE		OFFICE USE ONLY								
⊠ a) Basic National	\$ 300.00										
⊠ ь) Examination F	\$ 200.00										
⊠ c) Search Fee	\$ 50	0.00									
Т	OTAL OF ABOV	\$100	00.00									
(excluding s	ee for specification sequence listing of the fee is \$250 for											
Total Sheets	Extra Sheets	eets Number of each addition there			Rate							
* - 100 =	*/50=			X 25	50.00							
	130.00 for furnishi st claimed priority	\$										
CLAIMS	NUMBER FILE	D	NUMBER EXTRA		RATE	\$						
Total claims	23- 20) =	3	×	\$50.00	\$15	0.00					
Independent cla	ims 3-3=		0	×	\$200.00	\$	0.00					
MULTIPLE DEP	ENDENT CLAIM(S) (if app	licable)	+	\$360.00	\$						
TOTAL OF AB	OVE CALCULA	TIONS	=	•		\$11	50.00					
☐ Applican reduced	t claims small entity by 1/2.	\$										
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	of \$130.00 for furnishmed priority date (37	\$										
TOTAL NATIO	NAL FEE =					\$11	50.00					
			7 CFR 1.21(h)). The as 37 CFR 3.28, 3.31). \$4			\$ 4	0.00					
TOTAL FEES	ENCLOSED =					\$119	90.00					
			Am	ount	to be refunded	:		\$				
			. Р	mou	nt to be charged			\$				
a. ☑ A check in the amount of \$1,190.00 to cover the above fees is enclosed. b. ☐ Please charge my Deposit Account Noin the amount of \$to cover the above fees. A duplicate copy of this sheet is enclosed.												
c. 🛛 The Comoverpaym	missioner is herek nent to Deposit Ac	y autho count No	rized to charge any a o. <u>19-3935</u> . A duplica	te cop	by of this sheet i	s encl	osed.	•				
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.												
	SEND ALL CORRESPONDENCE TO: SIGNATURE							chard A. Gollhofer				
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Washington, D		106_										
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Your reference

Our Reference

2002P13061WO

SDa/Koe

Date

August 10, 2004

Application No.

PCT/DE03/03221

Applicant

Siemens Aktiengesellschaft

Communication dated

July 20, 2004

In accordance with Article 19, new claims pages 16 to 19 are submitted in the attachment, in order to replace the original set of claims.

No statement in accordance with Article 19(1) is being issued.

The following statements should be regarded as an attached covering letter:

The original claim 1, the original claim 6 (new claim 5) and the original claim 14 (new claim 13) have been amended. The original claim 4 has been deleted. All the other original claims remain unchanged. Owing to the deletion of the original claim 4, the original claims 5 to 25 have been renumbered and matched to the

Corporate Technology

Corporate Intellectual Property

and Functions

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SIEMENS

Page 2 of the letter dated August 10, 2004 to the International WIPO Office
Our reference 2002P13061WO

appropriate references.

In the precharacterizing clause of claim 1, the feature "conductor (4)" has been defined more precisely by the conductor being an "optical waveguide (4)". feature is the subject matter of the original claim 4, which it has thus been possible to delete. characterizing part of the main claim, the feature "optical waveguide (4)" has been defined more precisely in that "the optical wavequide (4) comprises at least two fiber Bragg grating sensors". Furthermore, in the characterizing part of the claim, the fiber Bragg grating sensors are specified as the point at which the electromagnetic wave which can be injected can be influenced on the basis of the optical wavequide temperature, which is dependent on the flow rate of the fluid. These features are supported by the description relating to Figure 13 and Figure 5 in conjunction with page 11, lines 20 to 32 and page 13, line 34 to page 14, line 11. The more precise definition of the feature "conductor" as an "optical waveguide (4)" has also been adopted in a consistent manner in the original claim 6 (new claim 5). The other original independent claim 14 (new claim 13) has likewise been made more precise at the appropriate points, by analogy with the changes in the main claim 1.

Siemens Aktiengesellschaft Attachment
[signed] New patent claims 1 to 24
pp Schwalm (1 copy)

No. 144/74 Ang-AV

Corporate Technology

Corporate Intellectual Property and Functions

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